

# **Be Practical Tech Solutions**

**Bangalore**



## **AWS Cloud Computing Project Report**

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# Project1:

## Host the static website on S3 (simple storage services)

I have created my personal portfolio website using html, css and JavaScript codes.

Hosting a static webpage using Amazon S3 (Simple Storage Service) is straightforward and involves a few key steps. Here's a step-by-step guide to get you started:

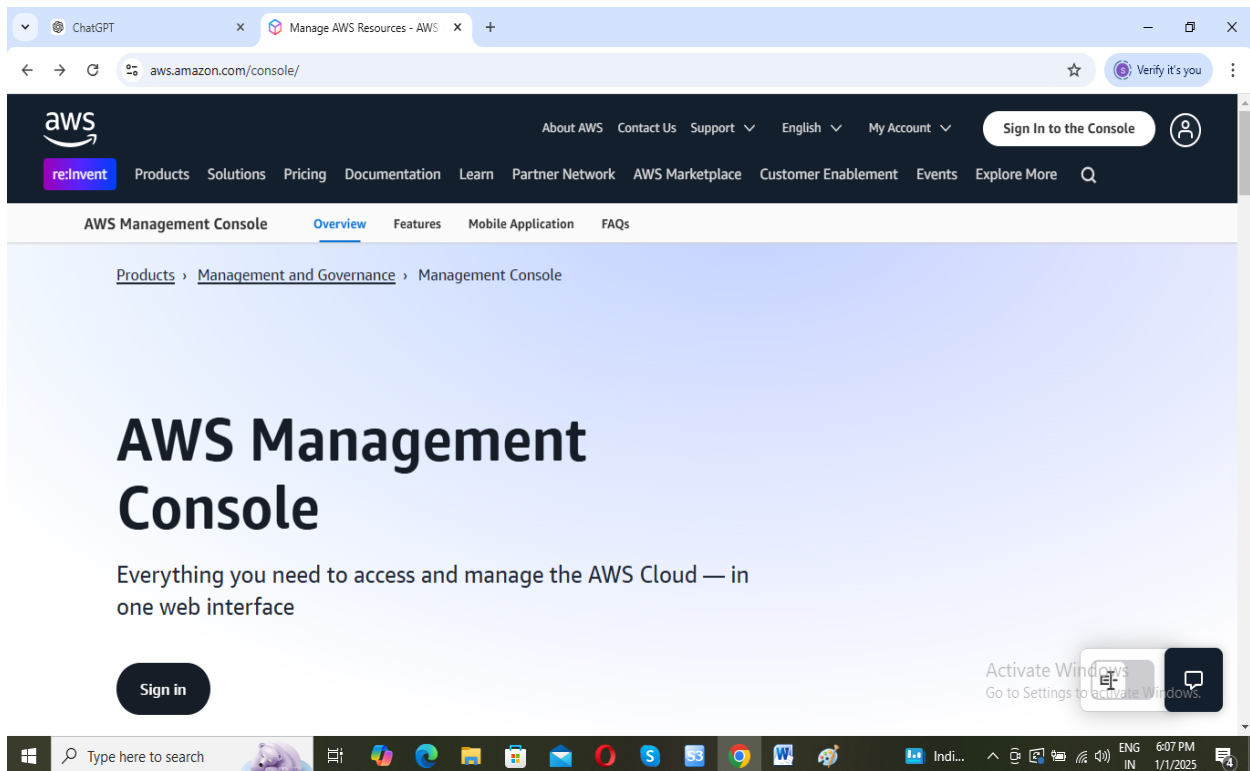
### Prerequisites:

1. **AWS Account:** Ensure you have an AWS account. If not, sign up at [AWS](#).
2. **AWS CLI or Management Console:** You can perform these steps using the AWS Management Console or AWS CLI.

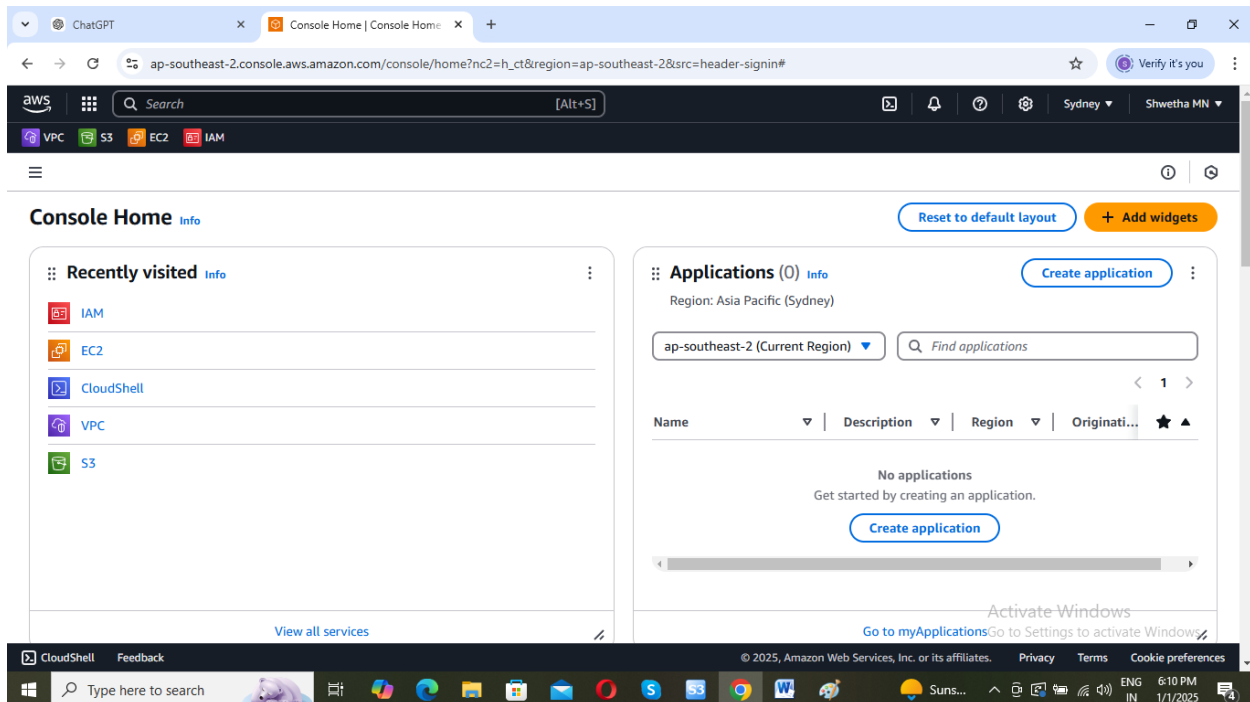
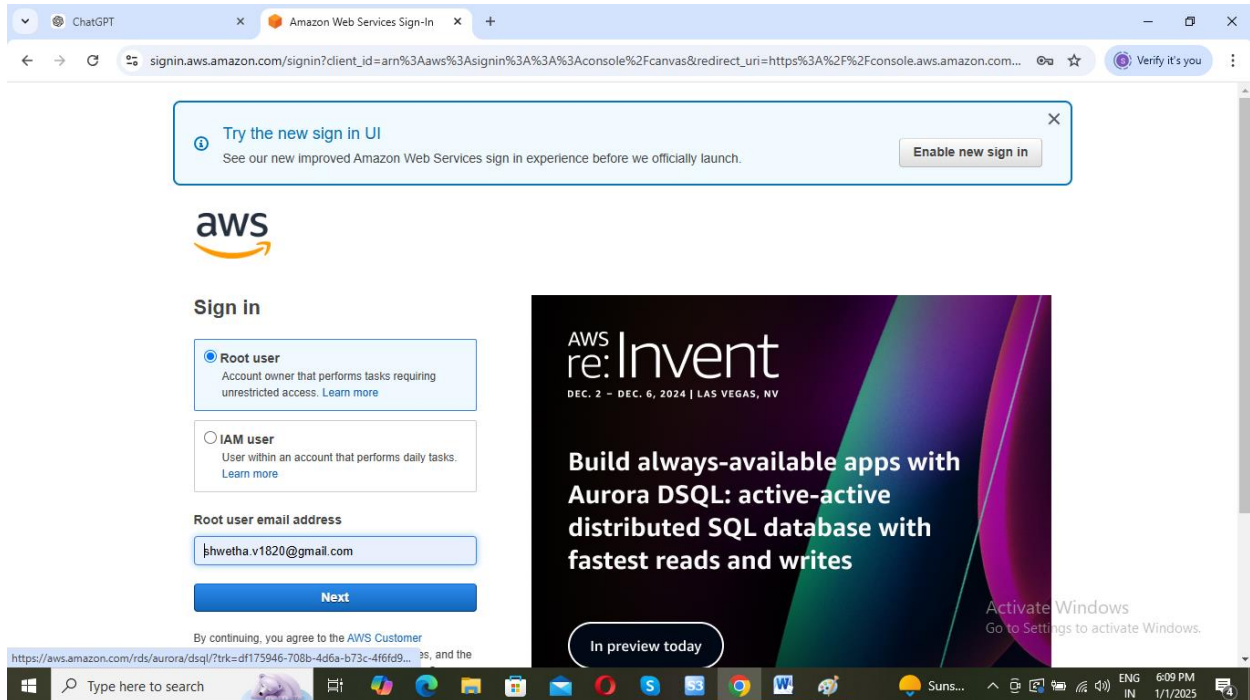
## Step 1: Create an S3 Bucket

### 1.1. Log in to the AWS Management Console:

- Navigate to AWS Management Console.

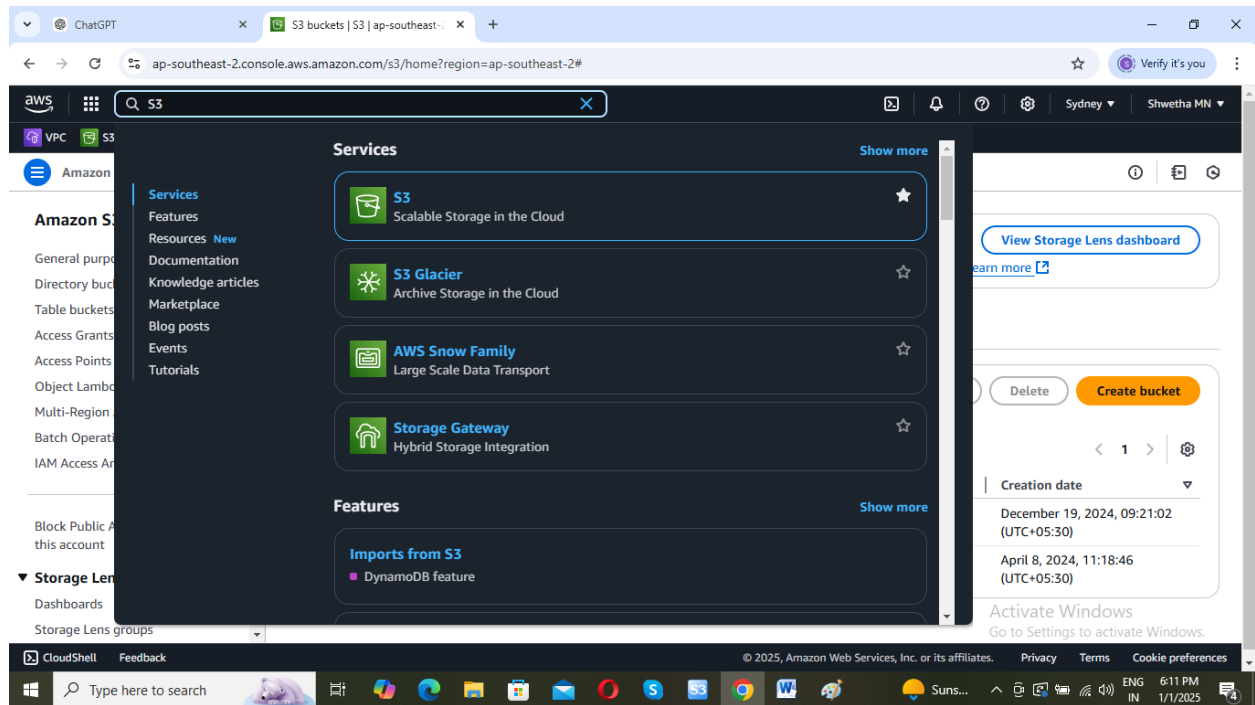


- Sign in with your AWS credentials.

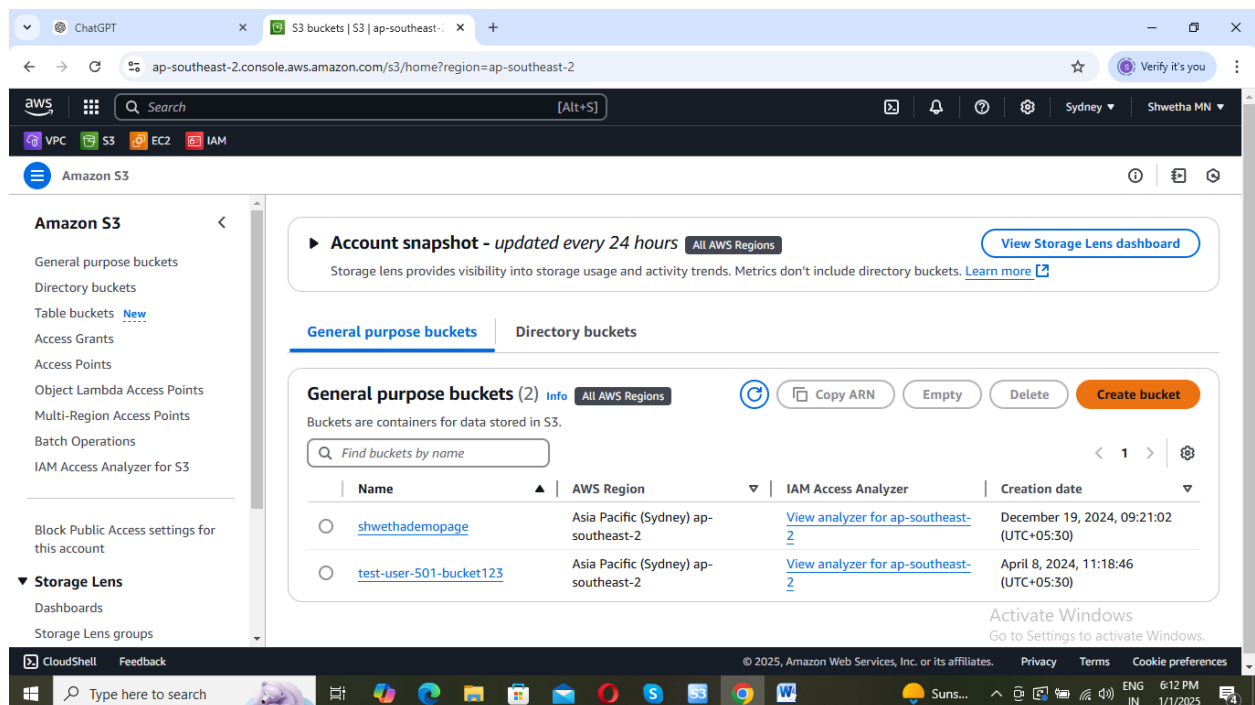


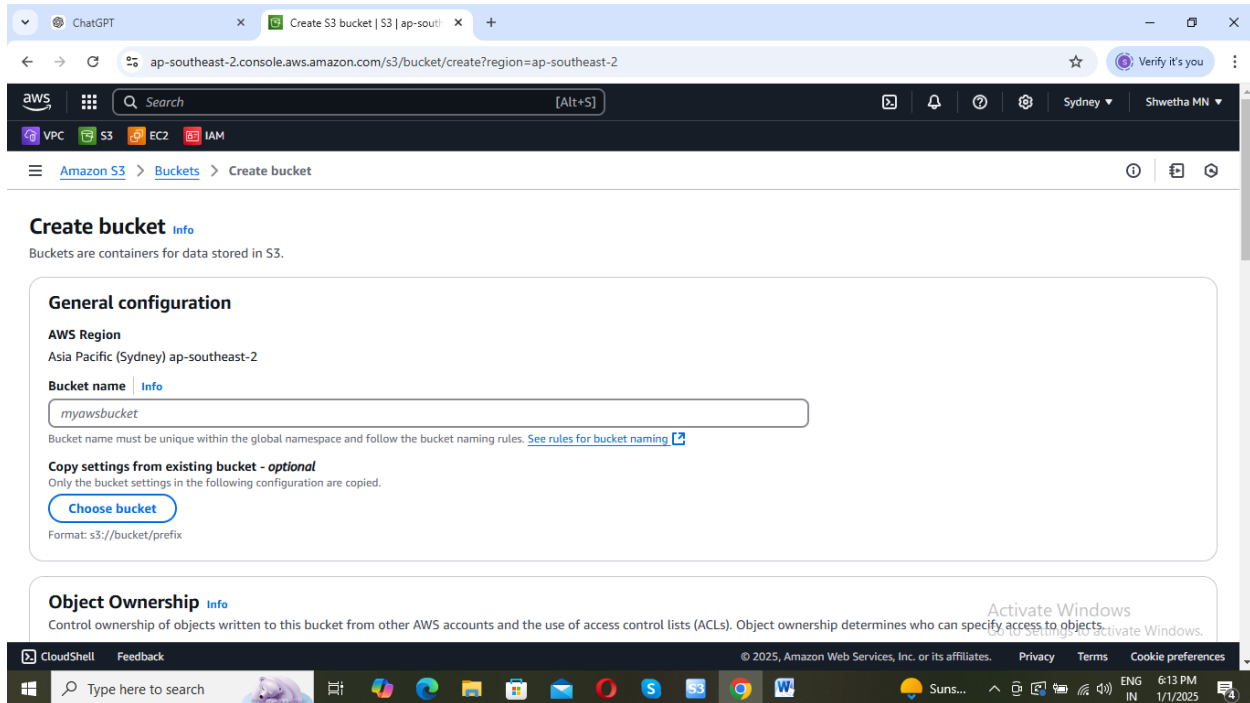
## 1.2.Create a New S3 Bucket:

- In the search bar, type **S3** and select it.

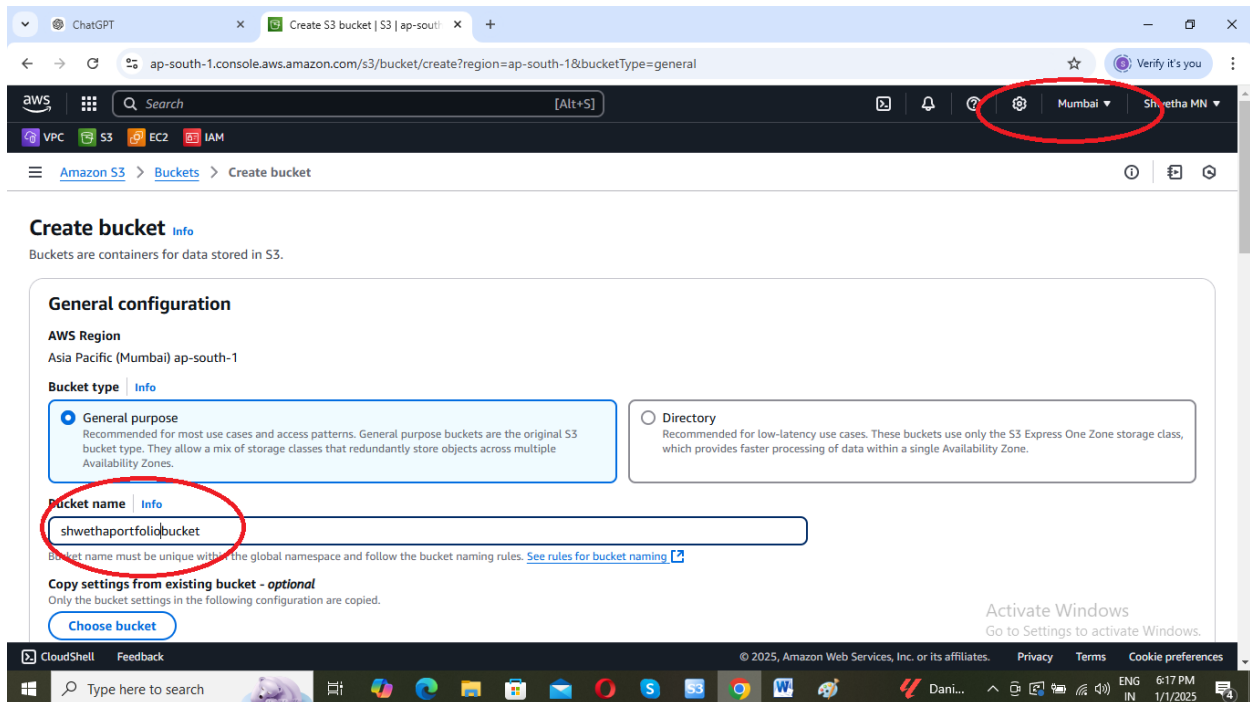


- Click **Create bucket**.





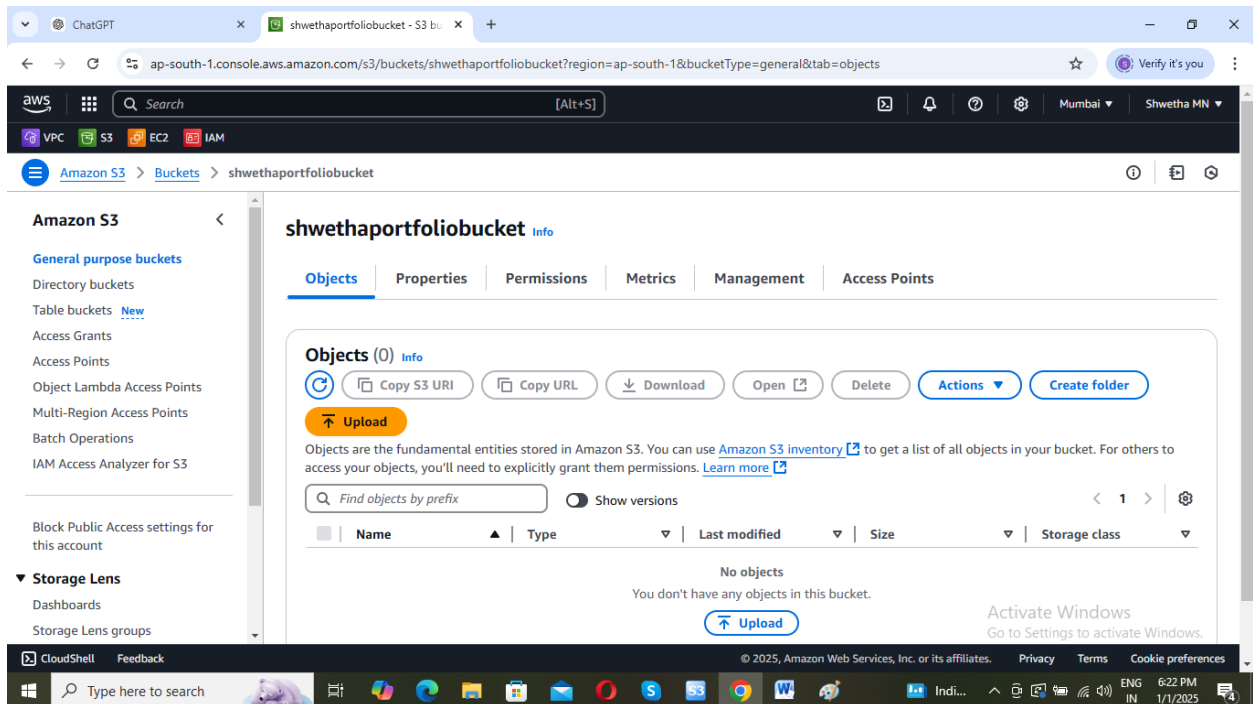
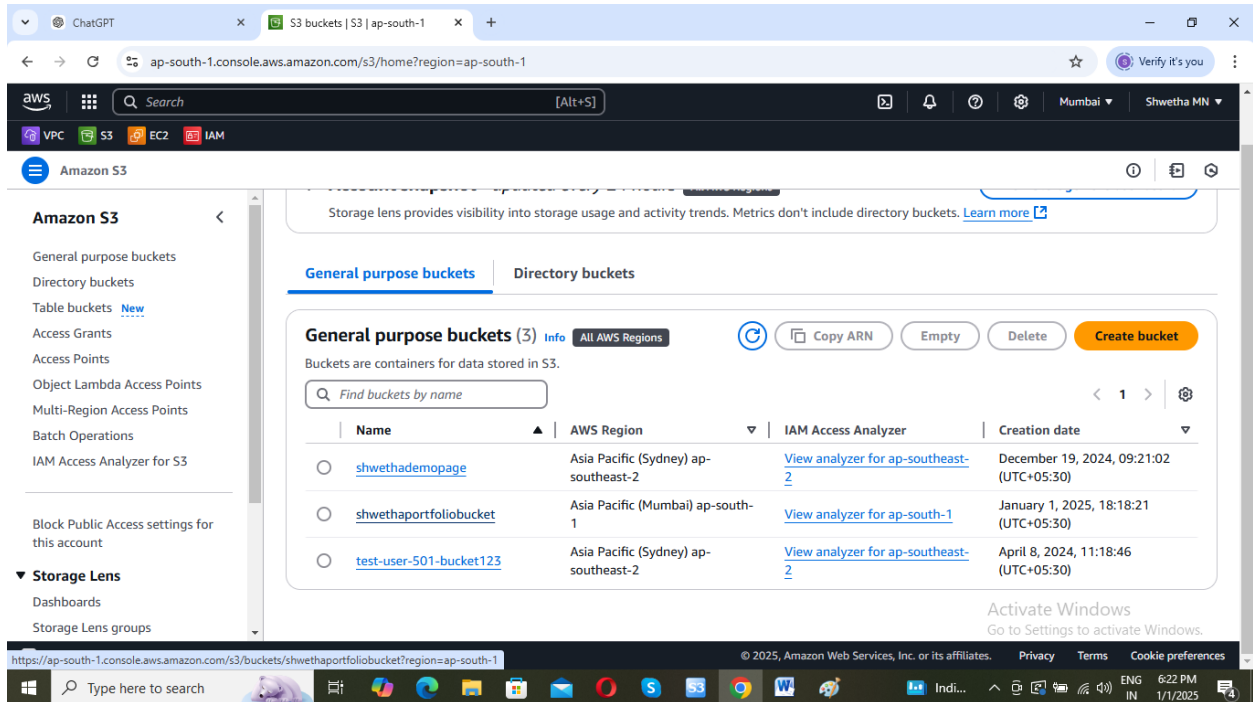
- Provide a unique name for the bucket. This name must be globally unique across all AWS users.
- Choose a region closest to your target audience.
- Keep the rest of the options at their default settings for now.
- Click **Create bucket**.



## Step 2: Upload Your Static Website Files

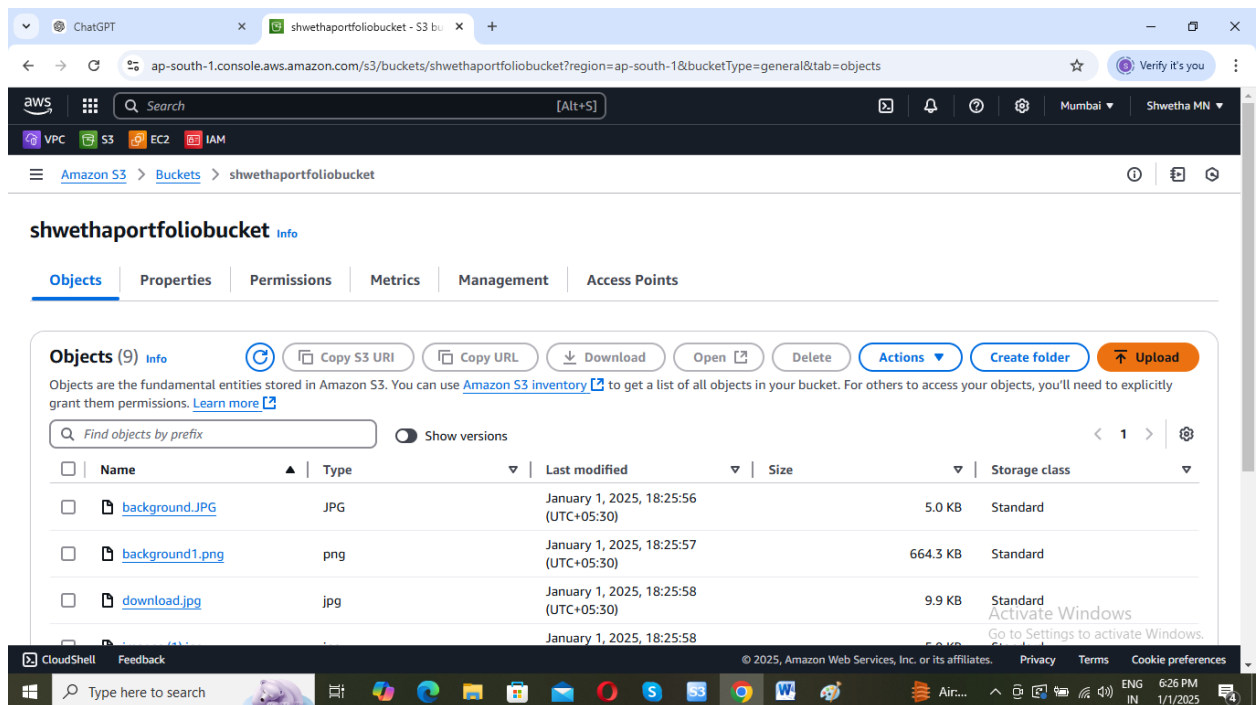
### 2.1. Navigate to Your S3 Bucket:

- In the S3 dashboard, click on the bucket you just created.

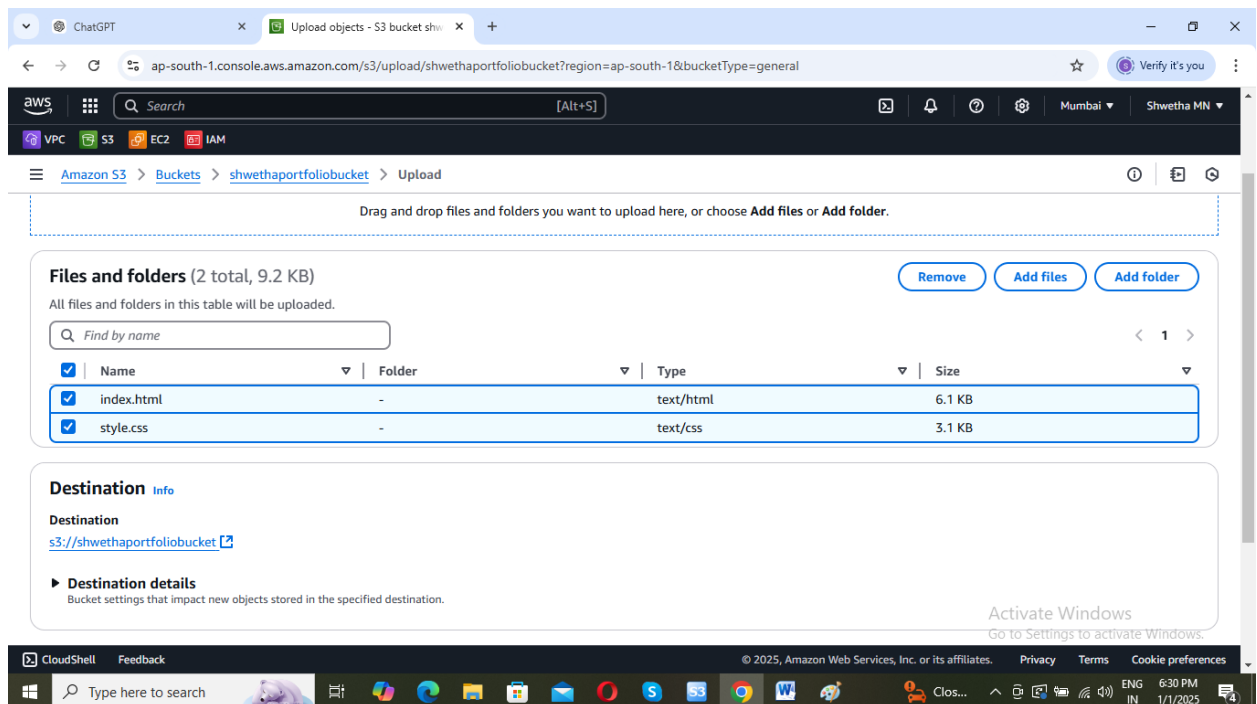


## Upload Files:

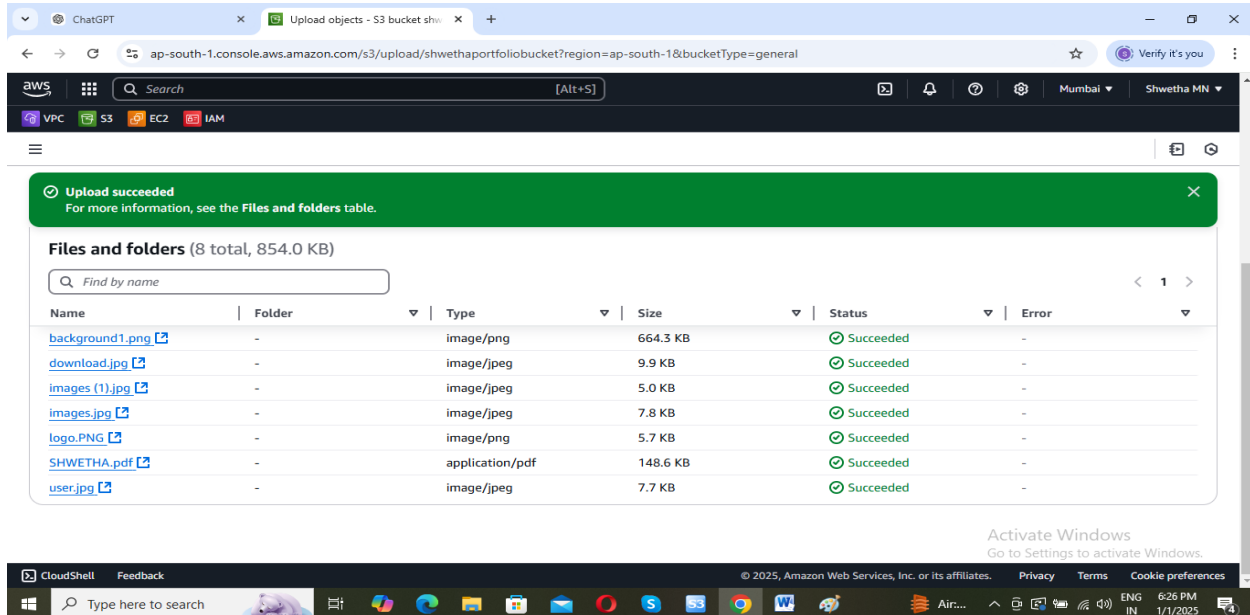
- Click the **Upload** button.



- Add your website files (e.g., HTML, CSS, JavaScript, images, etc.) by either dragging them into the browser window or using the **Add files** option.



- Click **Upload** to upload the files.

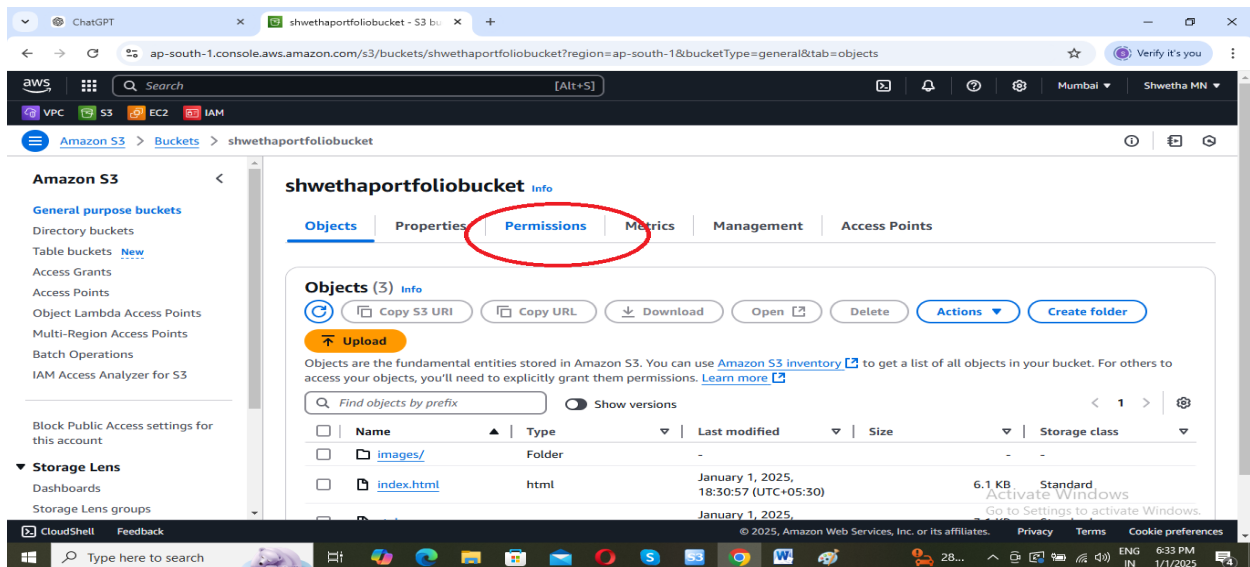


### Step 3: Make the Bucket Public

Since you're hosting a public static webpage, you need to make the bucket's contents publicly accessible.

#### 1. Bucket Policy:

- Go to the **Permissions** tab of your S3 bucket.





- Click on **Bucket Policy**.
- Add the following policy to make your content publicly accessible

**AWS Policy Generator**

The AWS Policy Generator is a tool that enables you to create policies that control access to Amazon Web Services (AWS) products and resources. For more information about creating policies, see [key concepts in Using AWS Identity and Access Management](#). Here are [sample policies](#).

**Step 1: Select Policy Type**

A Policy is a container for permissions. The different types of policies you can create are an [IAM Policy](#), an [S3 Bucket Policy](#), an [SNS Topic Policy](#), a [VPC Endpoint Policy](#), and an [SQS Queue Policy](#).

Select Type of Policy S3 Bucket Policy

**Step 2: Add Statement(s)**

A statement is the formal description of a single permission. See [a description of elements](#) that you can use in statements.

Effect ☒ Allow ☐ Deny

Principal

Use a comma to separate multiple values.

AWS Service Amazon S3 ☐ All Services (\*)

Use multiple statements to add permissions for more than one service.

Actions 1 Action(s) Selected ☒ All Actions (\*)

Amazon Resource Name (ARN)

ARN should follow the following format: `arn:aws:s3:::{BucketName}/{KeyPrefix}`. Use a comma to separate multiple values.

[Add Conditions \(Optional\)](#)

[Add Statement](#)

Activate Windows  
Go to Settings to activate Windows.

**Edit bucket policy**

**Bucket policy**

[Policy examples](#) [Policy generator](#)

The bucket policy, written in JSON, provides access to the objects stored in the bucket. Bucket policies don't apply to objects owned by other accounts. [Learn more](#)

**Bucket ARN**

[arn:aws:s3::shwethaportfoliobucket](#)

**Policy**

```

1
2  "Version": "2012-10-17",
3  "Statement": [
4    {
5      "Sid": "PublicReadGetObject",
6      "Effect": "Allow",
7      "Principal": "*",
8      "Action": [
9        "s3:GetObject"

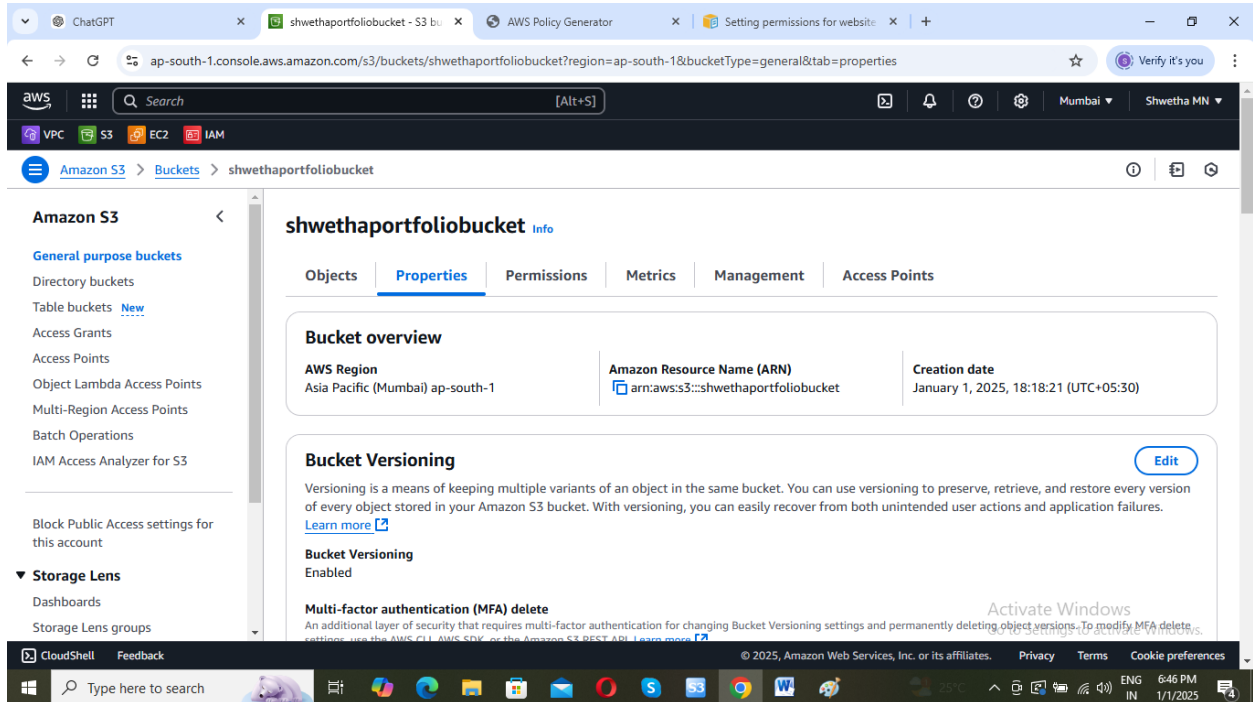
```

[Edit statement](#)

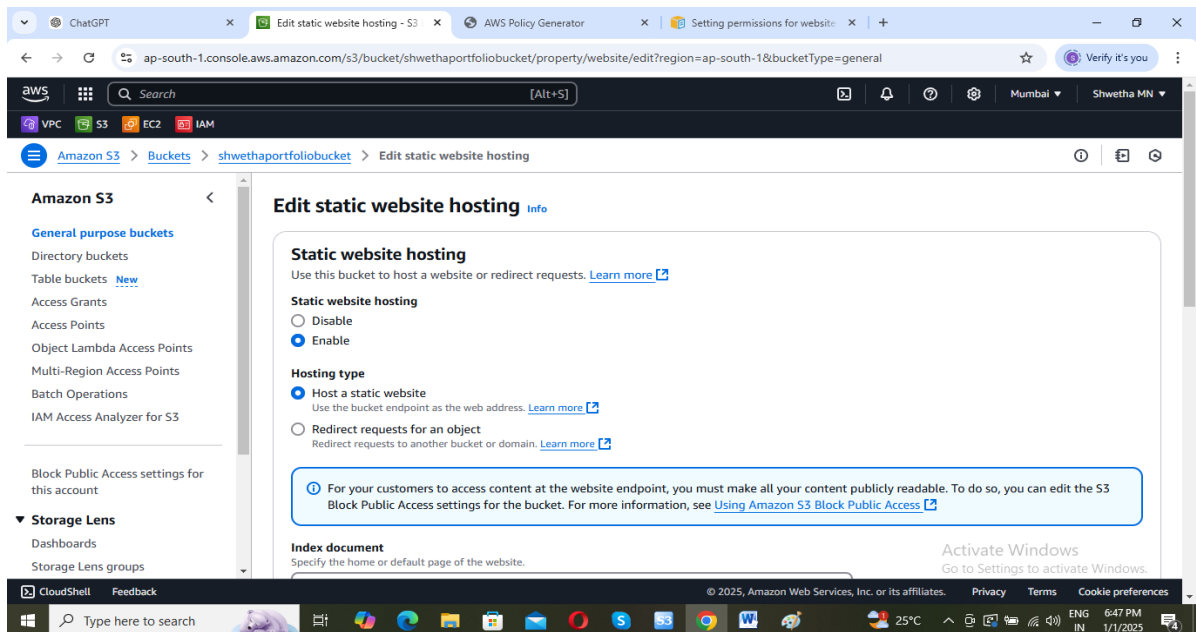
Select a statement  
Go to Settings to activate Windows.

## 2. Enable Static Website Hosting:

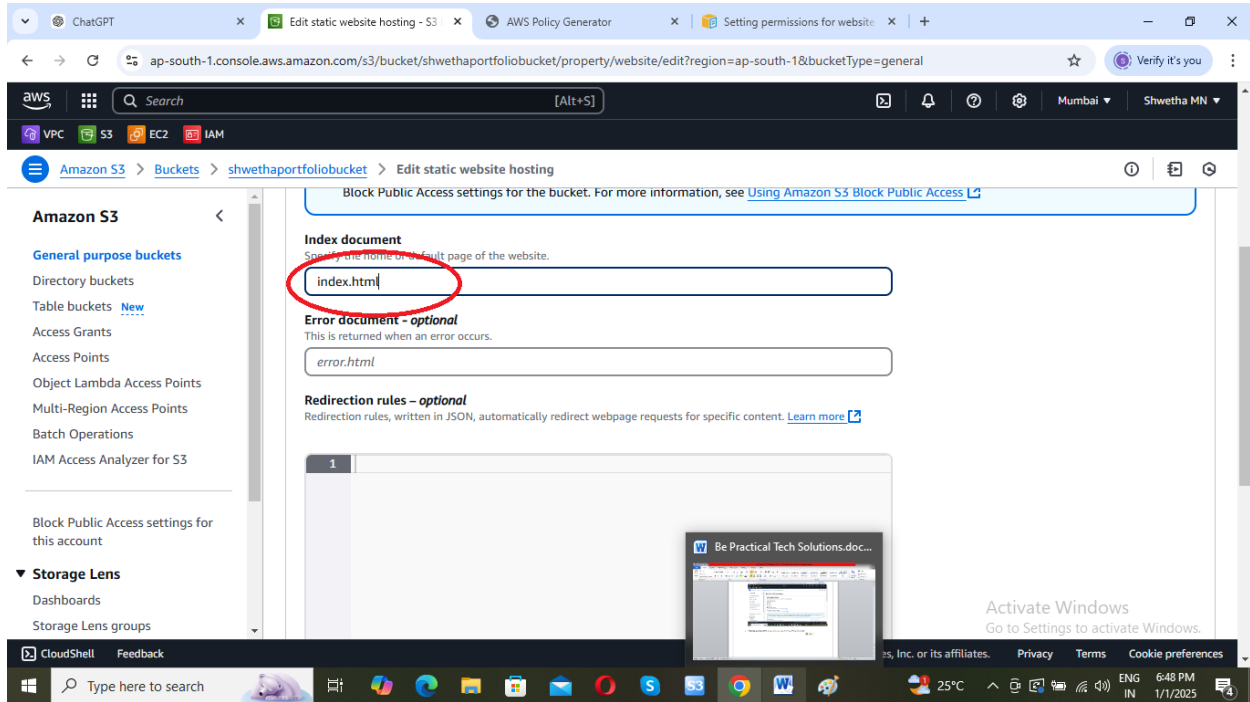
- In the **Properties** tab of your bucket, scroll down to **Static website hosting**.



- Enable static website hosting.



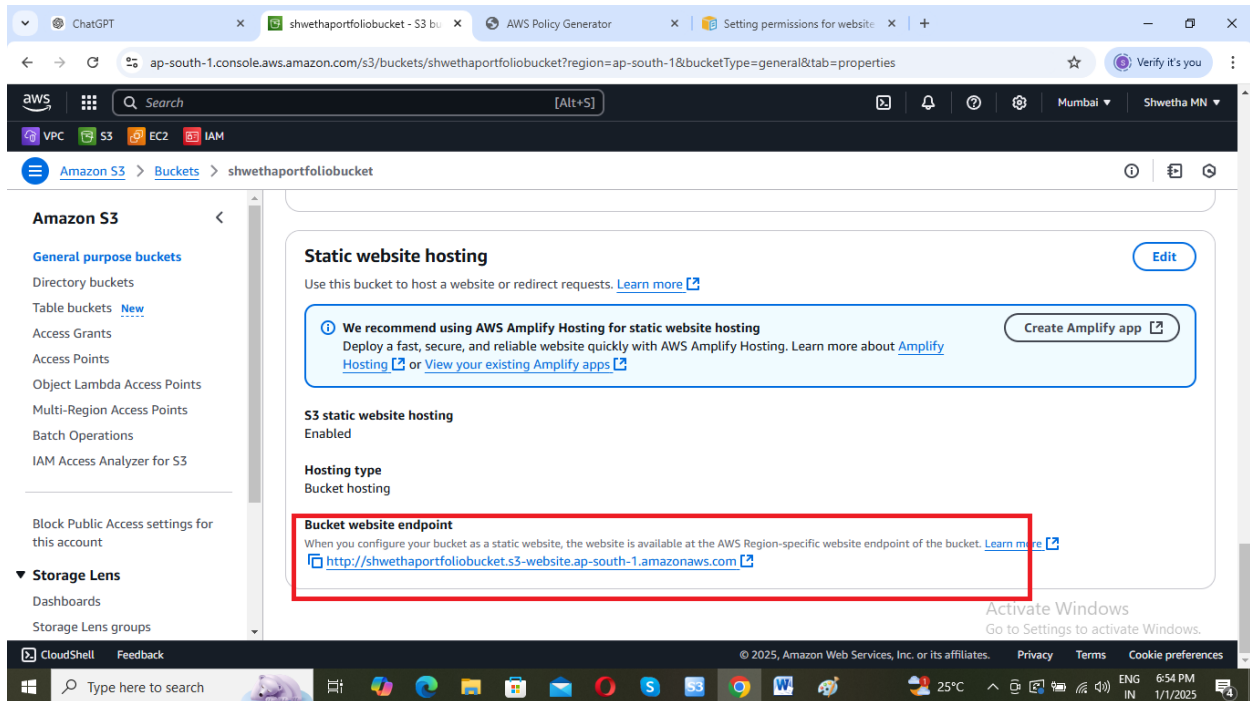
- Set **Index document** to `index.html` (or the main file of your website).
- Set **Error document** to `error.html` (optional but recommended for handling errors).
- Click **Save changes**.



## Step 4: Access Your Website

After enabling static website hosting, S3 provides a URL for your hosted website.

1. **Find the S3 URL:**
  - In the **Properties** tab, under **Static website hosting**, you'll see an endpoint URL like



- Use this URL to access your hosted static website.

